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COUNTERMEASURES TRAINING SIGNAL TRANSMITTING SET

Training Category/Level Utilized:
Signal/Level 3

Logistic Responsible Command, Service, or Agency:
CECOM

Source and Method of Obtaining:
Available through local TSC.

Purpose of Trainer:
To provide a means of transmitting jamming signals in the X-band frequencies. The trainer is used to support radar operator training in anti-jamming controls and techniques.

Functional Description:
Countermeasures Training Signal Transmitting Set AN/ULT-T2 is a low-power radar transmitter capable of generating and transmitting various types of interference signal in the 8500 to 9600 MHz radar X-band. The trainer is designed to operate in conjunction with an X-band radar and enables an operator to practice anti-jamming techniques. The carrier signal which it transmits can be manually tuned to the frequency of the radar set and modulated from an external source. The signal frequency is variable and can be set to any fixed frequency within the X-band. A swept signal frequency within the X-band is also available.

The characteristics of the transmitted signal may be adjusted with front panel controls. These characteristics are cw (continuous wave) frequency, sweep rate, sweep sector, percent modulation, type of modulation, and pulse width.

The trainer consists of a panel-chassis assembly and blower enclosed in a painted aluminum dust cover. It is stored and carried in a shock-resistant transit case with removal cover. Secured in the transit case cover, are the Operation and Maintenance Guide and accessories. The accessories consist of a horn antenna, power cable, an rf cable, and headset. The trainer, when enclosed in its olive-drab transit case, is carried by means of hinge-type handles located at each side of the case.

The trainer is made up of five sections: power supply, modulator (containing four modulating signal circuits and a sweeping circuit), rf section (containing a klystron oscillator, tube mount, horn antenna, and wave guide), keyer, and audio amplifier.

The front panel features 11 operating controls which can be used by the instructor to select the type of interference signal desired. It also mounts receptacles for input power; operating, blower, and spare fuses; and external modulation, rf, and audio output connectors.

Physical Information:

Horn antenna: 3" x 3" x 2"; 0.25 lb
Headset: 1 lb
RF cable: 1 lb
Power cable: 2 lb
Transit case: 35 lb

Equipment Required, Not Supplied:

X-band radar

Special Installation Requirements:

None

Power Requirements:

110 vac, single-phase, 50-440 Hz

Applicable Publications:

TM 11-6940-205 Series

NAVEXOS P-1856, Operation and Maintenance Guide for Radar Signal Interference Trainer (X-Band), Device 15X12

Reference Publications:

None

Training Requirements Supported:

Advanced Individual Training
NCO and Advanced NCO Training
MOSC 17C

COUNTERMEASURES TRAINING SIGNAL TRANSMITTING SET

DVC NO. 11-08

Training Category/Level Utilized:
Signal/Level 3

Logistic Responsible Command, Service, or Agency:
CECOM

Source and Method of Obtaining:
Available through local TSC.

Purpose of Trainer:
To provide a means of transmitting jamming signals in the S-band frequencies. The trainer is used to support radar operator training in anti-jamming controls and techniques.

Functional Description:
The Radar Signal Interference Trainer (S-Band) is a low-power radar transmitter capable of generating and transmitting various types of interference signals in the 2500 to 3500 MHz radar S-bands. The trainer is designed to operate in conjunction with an S-band radar and enables an operator to practice anti-jamming techniques. The carrier signal which it transmits can be manually tuned to the frequency of the radar set and modulated in amplitude by a sine wave, square wave, pulse, noise, or modulation from an external source. The signal frequency is variable and can be set to any fixed frequency within the S-band. A swept signal frequency within the S-band is also available.

The trainer operating controls are calibrated and thus permit an instructor to recreate identical jamming signals for individual students. The effect of each type of jamming signal on the radar set can be observed, and anti-jamming techniques can thus be practiced and developed.

The characteristics of the transmitted signal may be adjusted with front panel controls. These characteristics are cw (continuous wave) frequency, sweep rate, sweep sector, percent modulation, type of modulation, and pulse width.

The trainer consists of a panel-chassis assembly and blowers enclosed in a painted aluminum dust cover. It is stored and carried in a shock-resistant transit case with removable cover. Secured in the transit case cover are the Operation and Maintenance Guide and accessories. The accessories consist of a horn antenna, power cable, RF cable,

and headset. The trainer, when enclosed in its olive-drab transit case, is carried by means of hinge-type handles located at each side of the case.

The trainer is made up of five sections: power supply, modulator (containing four modulating signal circuits), RF section (containing a carcinotron oscillator, horn antenna, and power divider), keyer, and audio amplifier.

The front panel features 11 operating controls which can be used by the instructor to select the type of interference signal desired. It also mounts receptacles for input power; operating, blower, and spare fuses; and external modulation, rf, and audio output connectors.

Physical Information:

Control unit: 21" x 19" x 30"; 160 lb
Horn antenna: 7" x 8" x 7"; 2 lb
Headset: 2" diameter earpiece; 1 lb
RF cable: 75"; 1 lb
Power cable: 300"; 2 lb
Transit case: 19" x 22" x 31"; 52 lb

Equipment Required, Not Supplied:

S-band radar

Special Installation Requirements:

None

Power Requirements:

110 vac, single-phase, 50-440 Hz

Applicable Publications:

TM 11-6940-208 Series

NAVEXOS P-1185, Operation and Maintenance Guide for Radar Signal Interference Trainer (S-Band), Device 15X17.

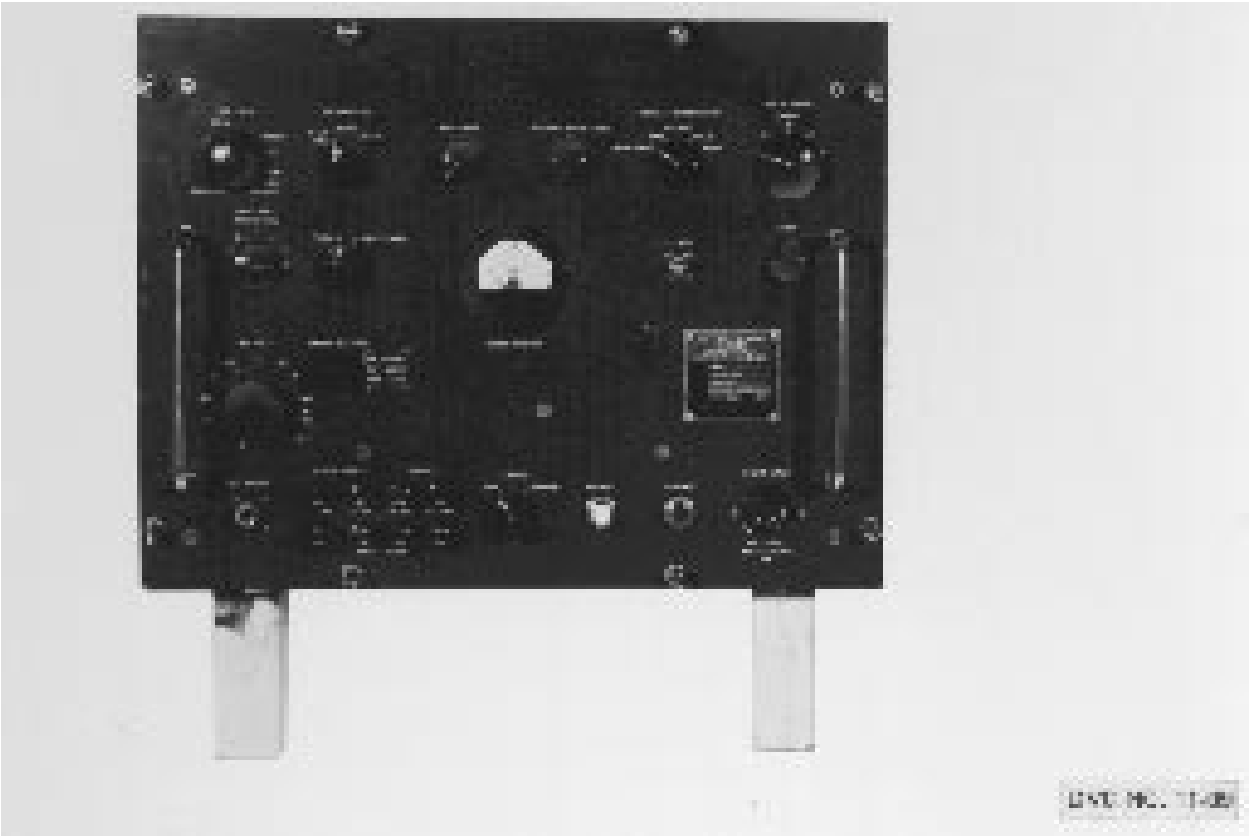
Reference Publications:

None

Training Requirements Supported:

Used in rotational training; ECM jamming

COUNTERMEASURES TRAINING SIGNAL TRANSMITTING SET



Training Category/Level Utilized:
Signal/Level 3

Logistic Responsible Command, Service, or Agency:
CECOM

Source and Method of Obtaining:
Available through local TSC.

Purpose of Trainer:
To provide a means of transmitting jamming signals in the L-band frequencies. The trainer is used to support radar operator training in anti-jamming controls and techniques.

Functional Description:
The Radar Signal Interference Trainer is an interference signal generator used to produce and transmit various types of radar interference that may be displayed on radar scopes, particularly during a tactical situation. This is accomplished by generating L-band frequencies (1220 to 1350 MHz) which may be internally or externally modulated. The front panel controls permit the selection of signal characteristics desired by the instructor for a particular problem. Varying the limits on the problem will, in turn, vary the information presented on the radar indicator. When used in this manner, there are practically an unlimited number of possibilities available for training purposes.

The trainer is designed to be operated by an instructor in the proximity of an L-band radar set for the purpose of transmitting sufficient RF output power to jam the radar receiver. The type of interference signal and its characteristics may be varied by the instructor during the period of instruction.

The trainee must recognize the jamming, the type of jamming, and try to read the true signal despite the interference. With this in mind, the trainer, by simulating actual interference signals, aids the trainee in becoming proficient in the use of anti-jamming techniques and in the recognition of jamming signals.

Over a period of time, therefore, the student develops skill in reading signals through varying amounts and types of interference.

Under the instructor's control, the trainer is capable of generating the following types of unmodulated cw or amplitude modulated cw:

a. Unmodulated cw frequencies between 1220 and 1350 MHz.

b. Sine wave modulated cw. Modulation is variable from 0 to 100 percent. Modulation frequency is variable from 15 Hz to 15 KHz or fixed at 50 KHz and 100 KHz.

c. Square wave modulated cw. Modulation frequency is variable from 15 Hz to 15 KHz or fixed at 50 KHz and 100 KHz.

d. Pulse modulated cw. Pulse width is continuously variable from 1 microsecond to 5 microseconds. Pulse repetition frequency is variable from 15 Hz to 15 KHz, or fixed at 50 KHz and 100 KHz.

The trainer has a frequency range from 1220 to 1350 MHz with power output of at least 2 MW at any frequency over the band.

Physical Information:

Control unit: 19" x 14" x 120"; 50 lb
Antenna: 12" x 9" x 4"; 11 lb
Headset: 1 lb
RF cable assembly: 72"; 1 lb
Power cable assembly: 300"; 2 lb
Transit case: 23" x 18" x 19"; 45 lb

Equipment Required, Not Supplied:

L-band radar

Special Installation Requirements:

None

Power Requirements:

110 vac, single-phase, 50-400 Hz

Applicable Publications:

TM 11-6940-207 Series
NAVEXOS P-1847, Operation and Maintenance Guide for Radar Signal Interference Trainer (L-Band), Device 15X18

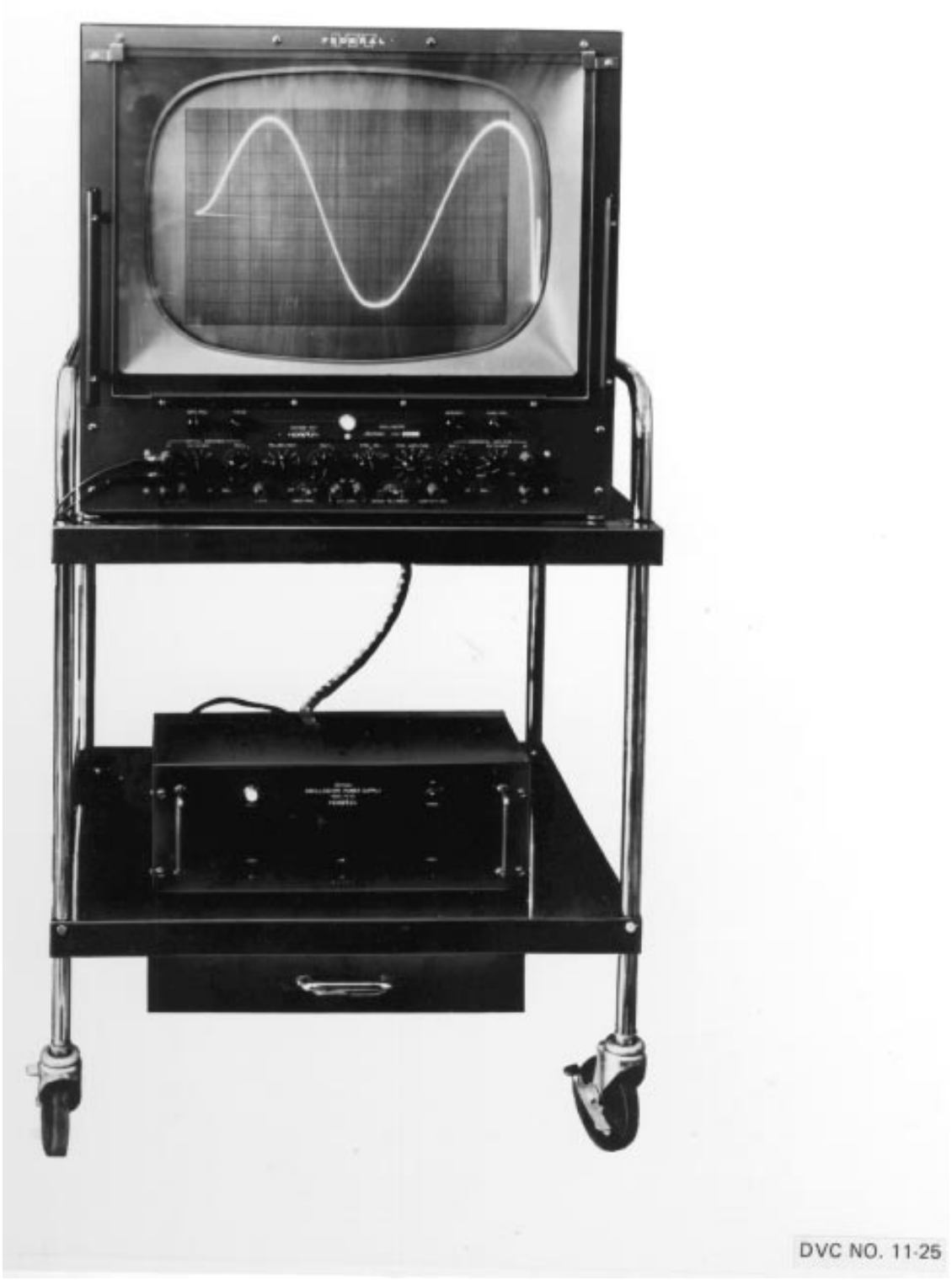
Reference Publications:

None

Training Requirements Supported:

(Information not available)

LARGE-SCREEN OSCILLOSCOPE TRAINER



Training Category/Level Utilized:
Signal/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
The trainer provides, on a screen large enough for classroom demonstration purposes, a cathode-ray oscilloscope presentation of voltage and current waveforms in operating electronic circuits. The trainer is for use in any military training course or school for basic or advanced instruction on electronics, where it is necessary to give lectures to large groups of students. It may be used as an aid in teaching circuit training, troubleshooting, dynamic circuit analysis, basic electronic principles, principles of oscilloscope operation, Lissajous pattern analysis, and other basic or advanced electronic principles.

Functional Description:
The trainer is a direct-view, 21-inch, cathode-ray oscilloscope. The CRT has a 110° deflection and is coated with P4 white phosphor which produces a high-intensity trace of medium persistence. It has good linearity, and high sensitivity.

The device includes its own power supply chassis, and an interconnecting cable is provided. No driver or additional oscilloscope is necessary since the device is a complete oscilloscope in itself.

Physical Information:
Oscilloscope cabinet: 25" x 23" x 27"; 138 lb
Power supply cabinet: 19" x 7" x 10"; 42 lb

Equipment Required, Not Supplied:
Roller cart shown in photo is designed for use with this trainer, but must be obtained as separate procurement.

Special Installation Requirements:
None

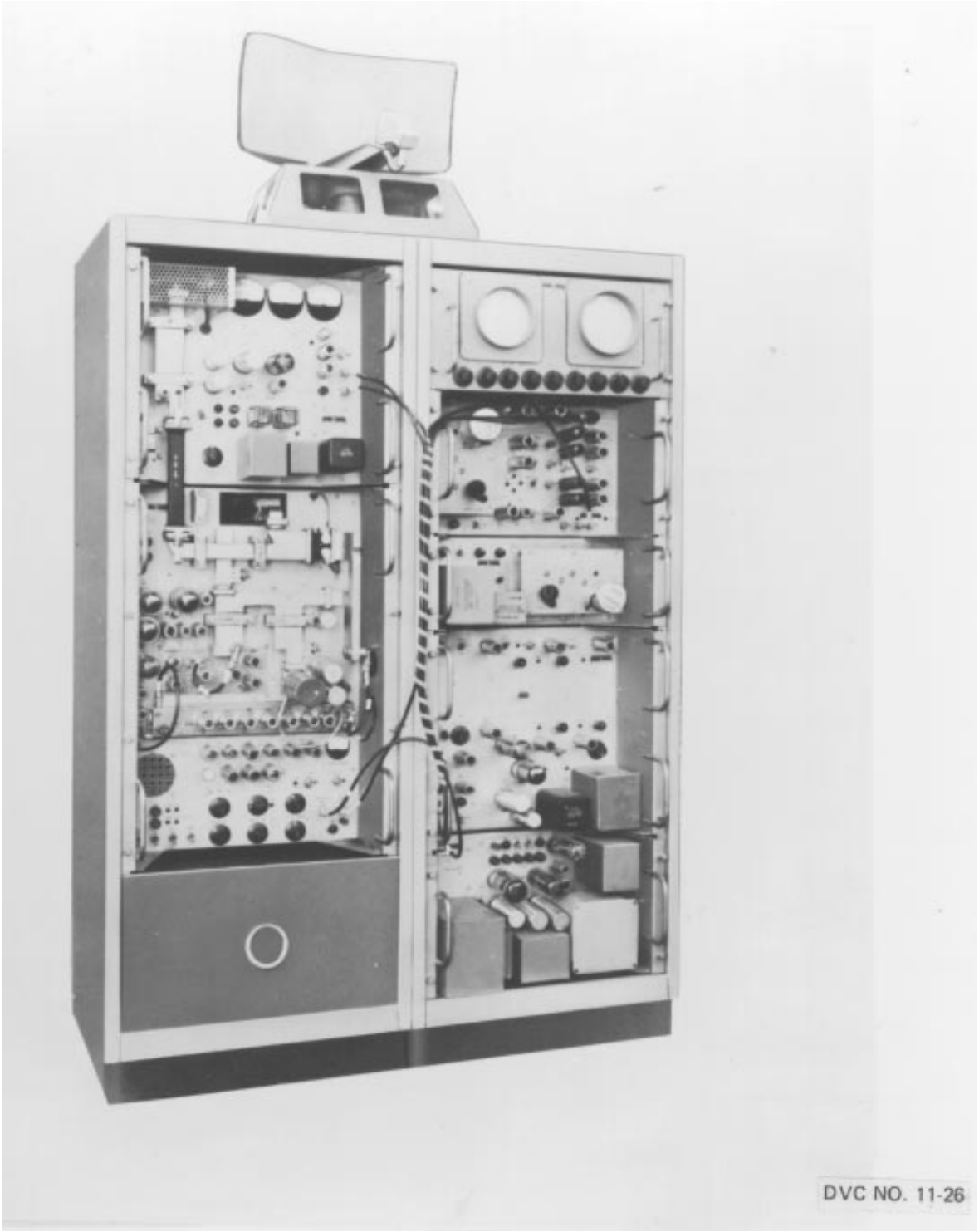
Power Requirements:
110 vac, single-phase, 50-400 Hz, 560 W maximum

Applicable Publications:
NAVEXOS P-2598, Maintenance Handbook for Large Screen Oscilloscope, Device 11D7

Reference Publications:
None

Training Requirements Supported:
Advanced Individual Training
NCO, Basic and Advanced
MOSC 29 series

RADAR REPAIR TRAINER



Training Category/Level Utilized:
Signal/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
To provide a means of demonstrating the principles and procedures related to the installation, calibration, operation, and maintenance of typical search radar systems, and to train technicians having a fundamental knowledge of electronics in basic radar circuitry. The specific training requirements supported are shown following the descriptive data.

Functional Description:
The trainer is a low-power, operational, X-band radar set which is specifically designed for use as a classroom or laboratory demonstrator. The device may be used to teach maintenance level theory of overall radar system operation, as well as theory peculiar to the five basic component parts of typical systems. Realistic presentations and situations can be developed and tailored to introduce basic and advanced concepts, provide skill practice and drill, and test student proficiency.

Modular design permits individual and integrated study and operation of the five basic radar system components (i.e., transmitter, receiver/duplexer, antenna, indicator, and synchronizer). Roll-over bars facilitate bench setups; physical layout provides easy accessibility. Plug-in component boards may be altered to introduce planned malfunctions. Multiple test points facilitate connection of test equipment, minimize physical labor aspects of training, and thereby increase efficiency of training cycle. An A-scope indicator may be used as a test oscilloscope.

Technical operating parameters are as follows:

a. Frequency: 8900 to 9400 MHz
b. Wavelength: 3 cm approximately
c. Peak radiated power output: 1000 W maximum
d. Average radiated power output: 2 W maximum
e. Pulse repetition frequency: 2000 Hz
f. Pulse length: 0.8 ms
g. Duty cycle: 0.002 approximately
h. Range: 12,000 meters maximum
i. Operating ranges: 0 to 6000 m/yd; 0 to 12,000 m/yd
j. Type of presentation: 5-inch electromagnetic CRT for PPI; 5-inch electrostatic CRT for "A" scope
k. Antenna operation:
Continuous: 6 rpm in one direction of rotation only
Manual: In either direction of rotation
1. Receiver: Intermediate frequency: 30 MHz
m. Minimum discernible signal: -97 dBm
n. Bandwidth: 2.4 MHz
o. Noise figure: less than 10 dB maximum

Physical Information:
42" x 22" x 78"; 800 lb

Equipment Required, Not Supplied:
None

Special Installation Requirements:
None

Power Requirements:
110 vac

Applicable Publications:
NAVEXOS P-2273, Operation and Maintenance Guide with Parts Catalog for Radar Repair Training Set (RMT100A), Device 11D8A

Reference Publications:
None

Training Requirements Supported:
MOSC 26D

SM 113-584 Tasks

0003	0041	3012	3031
0004	0054	3016	3032
0005	0057	3017	3033
0006	0063	3021	3034
0036	3001	3022	3035
0037	3003	3023	3037
0038	3004	3025	
0039	3010	3026	
0040	3011	3029	

AN/ULT-T5 RADAR TRAINER

Training Category/Level Utilized:
Signal/Level 2

Logistic Responsible Command, Service, or Agency:
CECOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
To provide a means of transmitting jamming signals in the K-band frequencies in support of radar operator training, in the classroom or outdoor training area, in anti-jamming controls and techniques.

Functional Description:
Radar Signal Interference Trainer (K-Band) is a low-power radar transmitter capable of generating and transmitting various types of interference signals in the 12.5 to 17.5 GHz radar K-Band. The trainer is designed to operate in conjunction with a K-Band radar, such as the AN/MPQ-4A, and enables an operator to practice anti-jamming techniques. The transmitted signal can be manually tuned to the frequency of the radar set. It can be modulated in amplitude by sine waves, square waves, pulses, noise, or modulating signals from an external source. It can also be frequency modulated by sine waves. The modulation frequencies are variable and can be set to any value between 15 Hz and 15 kHz. It can also be set at 50 or 100 KHz.

The characteristics of the transmitted signal may be adjusted by use of the front panel controls. These characteristics are carrier frequency, type of modulation, modulation frequency, percent modulation, percent FM deviation, and pulse width. The resultant signals appear on the trainee's radar indicator as various types of jamming.

The trainer consists of three basic groups of equipment: the control unit, the transmitter unit, and accessories. The entire trainer is packed in two transit cases. Transit case I contains the equipment required at the

instructor's site; the control unit, 200-foot cable and reel assembly, Reel Unit RL-31, Dower cable, 20-foot control cable. and instructor's headset. Transit case II contains the equipment required at the transmitting site: the transmitter, yoke, bearing drive, tripod, and the transmitter jumper cable.

The control unit consists of front panel assembly, modulator, low-voltage power supply, and audio (monitor) amplifier.

The transmitter consists of backward wave oscillator (BWO), its high-voltage power (RF) power supply and regulator, AM/FM modulation amplifiers, and antenna and microwave hardware.

The accessories consist of bearing drive assembly, transmitter tripod, yoke assembly, and 200-foot cable and reel assembly and Reel Unit RL-31.

Physical Information:

Transit case I: 38" x 28" x 23"; 94 lb
- Control unit: 19" x 13" x 15"; 68 lb
- Cable and reel assembly: 2400"; 95 lb
- Power cable assembly: 300"; 2% lb
- Control cable: 240"; 10 lb
- Headset: 1 lb
- Reel unit: 35" x 24" x 4"; 30 lb

Transit case II: 38" x 28" x 24"; 87 lb
- Transmitter: 20" x 17" x 7"; 39 lb
- Yoke assembly: 19" x 8" x 3"; 7 lb
- Bearing drive assembly: 9" diameter x 13"; 12 lb
- Tripod: 10" diameter x 36" (retracted); 28 lb
- Transmitter jumper cable: 24"; 2 lb

Equipment Required, Not Supplied:

Operational K-band radar

Special Installation Requirements:

None

Power Requirements:

110 vac, single-phase, 50-400 Hz

Applicable Publications:

TM 11-6940-209 Series

NAVEXOS P-2267, Operation and Maintenance Guide for Radar Signal Interference Trainer (K-Band), Device 15E5

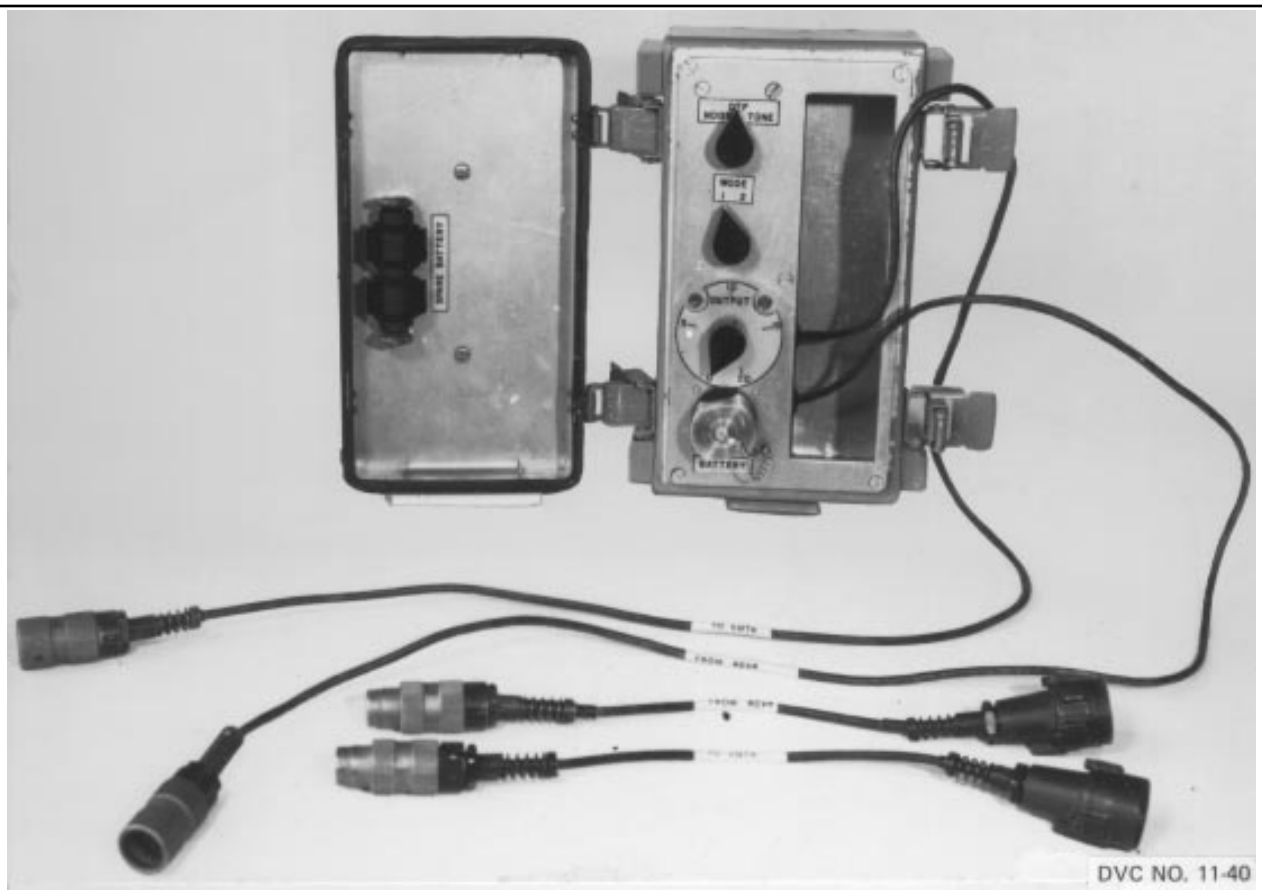
Reference Publications:

None

Training Requirements Supported:

(Information not available)

INTERFERENCE GENERATOR TRAINER SG-886T/UR



Training Category/Level Utilized:
Signal/ Level 3

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Available through local TSC.

Purpose of Trainer:
For classroom or field use to provide practical experience to students and field radio operators in the recognition, identification, and categorization of different types of interference. The interference generator is used to train students to exercise proper procedures to distinguish between intentional and accidental jamming, and to promote proficiency in copying through interference that does not completely disrupt communications.

Functional Description:
The training device operates in the 2-76 MHz range and is capable of producing tone and noise interference which is used to modulate standard tactical amplitude modulation (AM), frequency modulation (FM), and single side band (SSB) radio transmitters. It has two types of output (referred to as modes) that are compatible with the input levels of the AN/VRC-12, AN/PRC-77, and the AN/GRC-106 series of radio sets. The countermeasure set will allow AM/FM and SSB equipment to be used as communication jammers. External modulation received by a separate receiver can be fed through the device to modulate radios to provide additional electronic countermeasures training and jammer modulation.

Physical Information:
Transit case and generator unit assemblies: 9" x 5" x 4"; 5 lb

Equipment Required, Not Supplied:
Dry battery, BA-1363U

Special Installation Requirements:
None

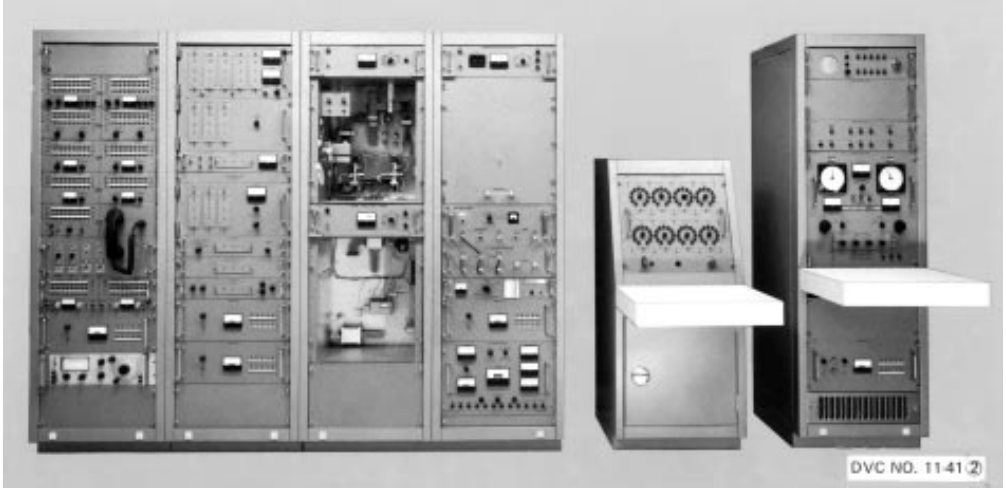
Power Requirements:
None

Applicable Publications:
TM 11-6940-210-14, Operator's, Organizational, Direct Support, and General Support Maintenance Manual

Reference Publications:
TM 11-5820-401 Series
TM 11-5820-398-12
TM 11-5820-498-12
TM 11-5820-520-12

Training Requirements Supported:
MOSC 29 series

SATELLITE COMMUNICATIONS EARTH TERMINAL REPAIR TRAINER



Training Category/Level Utilized:
Signal/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
To provide a simulator to train students in the operation, maintenance, troubleshooting, and repair of equipment which is typical of satellite communications earth terminals. The specific training requirements supported are shown following the descriptive data.

Functional Description:
The trainer is a functional system composed of operational circuits which are representative of those found in existing satellite communication earth terminals, i.e., AN/MSC-46, AN/TSC-54, AN/FSC-78/79. Controls, monitoring indicators, and alarms are also typical of existing satellite communication equipment. The trainer is composed of the following major assemblies:

a. Modulator
b. Exciter
c. Power amplifier (including liquid cooler and dehydrator)
d. Beacon demodulator
e. Communication demodulator
f. Baseband
g. Antenna mockup
h. Antenna positioning system

Each major assembly contains its own power supply and can therefore function independently when provided the proper stimuli. When the major assemblies are interconnected, they are capable of functioning as a complete system. The frequencies and signal levels are characteristic of typical super high frequencies earth terminals. The RF signal is not radiated, but is provided by coaxial cable to a satellite simulator which allows two devices to be interconnected for back-to-back communication. An Instructor's Console is also provided to allow approximately 100 realistic malfunctions to be inserted. The trainer layout is specifically designed to enhance maintenance and troubleshooting.

Physical Information:
Cabinets: 24" x 24" x 72" (nine); 24" x 36" x 48" (one)
Antenna: 60" high with 48" simulated parabolic reflector
Total weight: 4,200 lb

Equipment Required, Not Supplied:
General test equipment associated with the Satellite Communication Earth Terminal Course, 26Y20.

Special Installation Requirements:
None

Power Requirements:
110/220 vac, 20 A per phase, 3-phase, 4-wire, 60 Hz

Applicable Publications:
NAVTRADEV P-4018 Series

Reference Publications:
None

Training Requirements Supported:
MOSC 26Y

MORSE MISSION TRAINER

Training Category/Level Utilized:
Communications (Morse Intercept)/Level 1

Logistic Responsible Command, Service, or Agency:
USAICS

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
To provide realistic Morse Intercept Training in Strategic and Tactical operations for Continuous Wave (CW), Frequency Shift Keying (FSK), and Double FSK (DFSK).

Functional Description:
Device 11-46 is a Multi-Station Classroom Trainer consisting of one Instructor/Operator Station (IOS), one backup IOS, and 24 Student Stations (SS). These are placed in seven classrooms with six classrooms configured as single mode (CW only) and one dual mode classroom that provides FSK/DFSK training.

The MMT is a computer controlled, multi-station training system. The computer system is an IBM AT Compatible Zenith computer utilizing SCO Xenix System V operating environment and C language Compiler. Each classroom is connected by an Ethernet Local Area Network (LAN) using Xenix Netware. The Instructor/Operator Station (IOS) contains the controlling software for the operation of the MMT. The IOS operational modes include: Administration Mode, Instructional Mode, Authoring Mode and Maintenance Mode.

The Administration Mode provides updating and printing of reports, access to tutorials, and updating and maintenance of student records.

The Instructional Mode provides lesson assignment, monitoring of students, Control of HFCS-1000 parameters and class termination.

The instructor assigns a specific COI for each student or class of students and selects either manual or automatic lesson assignment. The instructor can monitor the total class or isolate on the progress of a specific student.

Physical Information:
IOS Cabinet: 23" x 50.5" x 36"; 437 lb
SS Cabinet: 23" x 50.3" x 36"; 264 lb
Dual Mode Cabinet: 23" x 78.5" x 36"; 365 lb
IOS Work Table: 60" x 26" x 29"; 85 lb
SS Work Table: 36" x 26" x 29"; 65 lb

Equipment Required, Not Supplied:
Data disk, 3.5", 720 KB capacity floppy
Data disk, 5.25", 1.2 MB capacity floppy
Printer paper, 80 column fanfold (for MXT 1200)
Printer paper, 132 column fanfold (for TB-600)

Special Installation Requirements:
None

Power Requirements:

120 vac, 60 Hz, 30 KVA Power Distribution Unit (PDU) for a Single Mode classroom or 50 KVA PDU for a Dual Mode classroom.

Applicable Publications:

TD 11-6940-704-20 System Interface Manual
TD 11-6940-704-10 Instructor's Utilization Manual
TD 11-6940-704-10-1 Computer Operator's Manual

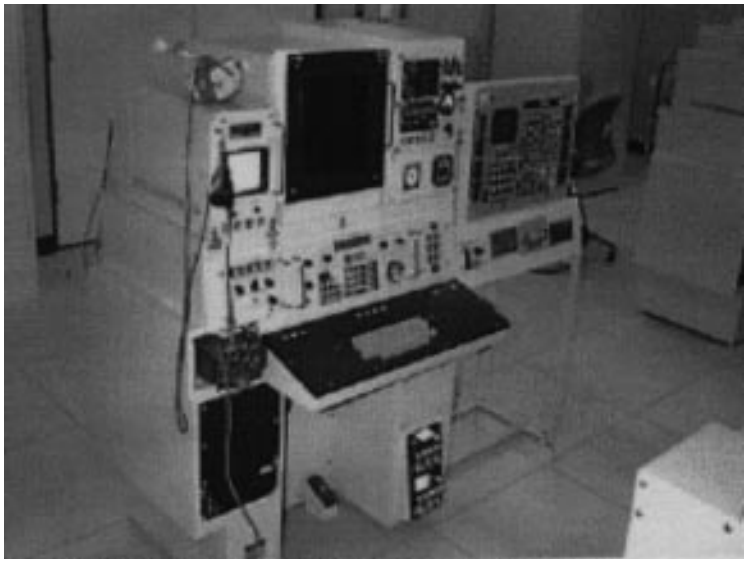
Reference Publications:

None

Training Requirements Supported:

MOSC 98H

GUARDRAIL SIGINT/ELECTRONIC WARFARE EQUIPMENT OPERATOR SIMULATOR SUITE (SEOS)



Training Category/Level Utilized:
Signal/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
The SEOS is a family of related trainers, providing a simulation of tactical SIGINT/EW systems.

Functional Description:
The SEOS family of trainers was built to the Department of the Army (DA) specifications. The 80286-motherboard is a specialized Multibus I board running in an Intel Corporation Multibus I chassis. All SEOS subsystems use the iRMX operating system (OS).

Physical Information:
(Information not avaliable)

Equipment Required, Not Supplied:
(Information not avaliable)

Special Installation Requirements:
Climatic Controlled classroom that maintains the ambient room temperature at 70° F. A relative humidity of 60 percent or less is desirable.

Power Requirements:
(Information not avaliable)

Applicable Publications:
(Information not avaliable)

Reference Publications:
(Information not avaliable)

Training Requirements Supported:
(Information not avaliable)

BASIC ELECTRONICS MAINTENANCE TRAINER (BEMT)

Training Category/Level Utilized:
Signal/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
BMET is designed to support the training of students in all aspects of basic electronics, including theory and hands-on application. The system allows instructors and administers to assign lesson modules to either a class of students or individual students and to track their progress.

Functional Description:
The BMET consists of 220 Studen/Instructor stations and a system console linked together in a Local Area Network (LAN). All of the stations are basically the same with the exception of the system console. The system console is operated by the system manager in the Trainer Control Center (TCC). BMET Student/Instructor workstations are built around a 80386 Personal Computer (PC). A video disk player, a NIDA electronics trainer and a multifunction test set are connected to the PC. The system console in the TCC consists of two 80386 computers connected to the LAN server which is a 80486 computer. The console system also includes an optical disc drive and a switch unit that allows the three computers to share a monitor. The BMET LAN runs on Novell NetWare Version 3.11. The workstations run Windows 3.11 and DOS 6.22. Most of the courseware is written in IconAuthor Version 3.0, while student administrative and progress data is stored in a SuperBase 1.3 database. The interface for all of the above software has been written and compiled using Microsoft C.

Physical Information:
(Information not avaliable)

Equipment Required, Not Supplied:
(Information not avaliable)

Special Installation Requirements:
(Information not avaliable)

Power Requirements:
(Information not avaliable)

Applicable Publications:
(Information not avaliable)

Reference Publications:
(Information not avaliable)

Training Requirements Supported:
(Information not avaliable)

NON-COMMUNICATION SIGNAL RECOGNITION TRAINER

Training Category/Level Utilized:
Communications (Electronic Intelligence)

Logistic Responsible Command, Service, or Agency:
USAICS

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
The NCSRT is an Electronic Intelligence (ELINT) trainer designed to provide a self-paced, step-by-step method of instruction through the use of realistic emitter signatures presented in real-time training missions.

Functional Description:
Device 11-49 consists of a student/instructor station with panoramic and analysis displays, computer system, emitter simulation hardware, headset and aural control hardware. It is possible to generate and display almost any emitter signature while monitoring and recording student responses.

To configure the training system as an instructor station, the operator must enter an access code and password. The instructor may then create training scenarios or obtain student performance reports. The creation of training scenarios is accomplished through a series of user-friendly menus; student performance reports appear on the CRT and may be printed provided the optional printer is attached.

Functioning as the student station, students are provided with the opportunity to analyze signals presented on the analysis (oscilloscope) display and/or the Panoramic receiver display. In addition, audio signal information is provided during the analysis (oscilloscope) display. The student is required to utilize panoramic receiver controls in conjunction with the oscilloscope controls to analyze the characteristics of simulated emitter signals.

The training system software is designed to present accurate simulation of realistic emitter signatures pertinent to the operational procedures of signal recognition, signal analysis, and basic ELINT theory. The student may respond to instructor generated questions at any time during the training mission; responses and response times are recorded for support software generation or modification of training scenarios, testing and maintenance and also includes commercial utility software.

The trainer consists of selected hardware and software components integrated into a complete system. The system is primarily constructed from proven “off-the-shelf” commercially available equipment to ensure reliability and supportability. The specific hardware and software components are selected and configured to meet the particular requirements of the NCSRT training.

Physical Information:
Number of pieces: One (Two with optional printer)
Trainer cabinet: 60" x 26" x 32"; 300 lb

Equipment Required, Not Supplied:
None

Special Installation Requirements:
None

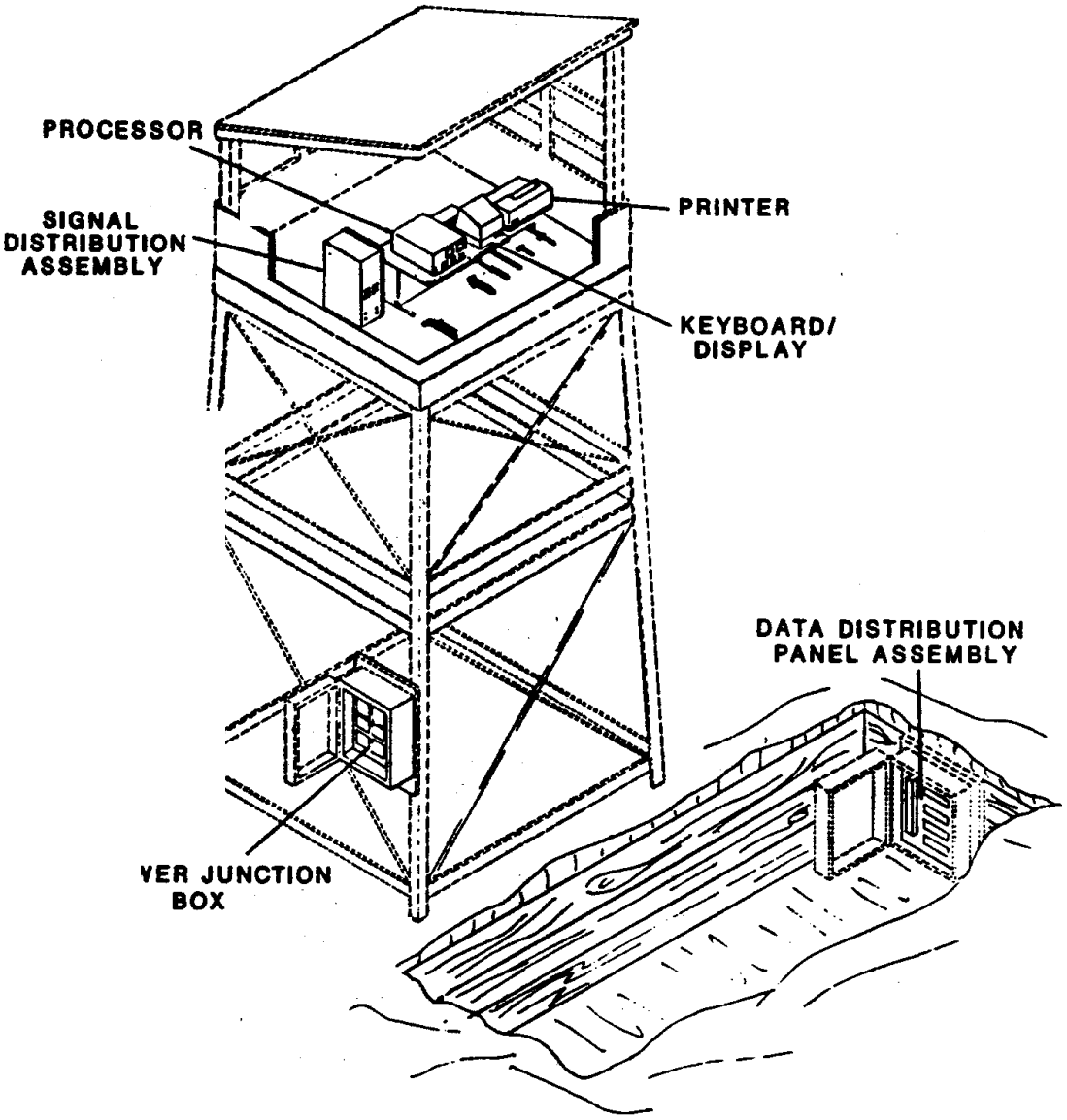
Power Requirements:
Input: 115 vac, 60 Hz, 10.4 A capacity outlet, single phase three-wire outlet
Maximum Peak Power: 1.25 KVA

Applicable Publications:
TD 11-6940-706-1
TD 11-6940-706-2
TD 11-6940 706-3
Computer System Operator’s Manual

Reference Publications:
None

Training Requirements Supported:
MOSC 98J

REMOTED TARGET SYSTEM (RETS) RANGE CONTROL STATION (RCS)



Training Category/Level Utilized:
Infantry/Armor/Aviation/Level 1

Logistic Responsible Command, Service, or Agency:
ACALA

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
The Range Control Station (RCS) is a component of the Remoted Target System (RETS) DVC 09-24. RCS provides for both automatic and manual control and status monitoring of up to 511 independent target mechanisms. RCS includes a computer, scoring printer, and signal distribution assembly with tower junction box. Signals are carried from RCS to the target mechanisms through buried lines.

Functional Description:
RCS components function as follows:

a. Computer: For Infantry ranges, the computer consists of an IBM-compatible personal computer with a dedicated RETS I/O PWA, a monitor, a keyboard, an SDA cable, a printer stand and a serial printer. For Armor ranges, the computer assembly includes an additional computer and a six-function trackball. The computer assembly executes manual and automatic target operations and Built-In-Test functions, and monitors and reports target status information.

b. Scoring Printer. Provides a hard copy printout of trainee performance, as well as range performance, and a listing of

the current scenario.

c. Signal Distribution Assembly and Tower Junction Box. Provides interconnection between processor assembly and tower junction box, and input power to other RCS components. The Tower Junction Box is the interface between the RCS and the down-range service.

Physical Information:
Varies

Equipment Required, Not Supplied:
None

Special Installation Requirements:
A roofed tower, centrally located immediately behind the firing line houses the computer assembly, printer, and signal distribution assembly, Range personnel have a clear field of view from the tower. The junction box is mounted near the base of the tower; the buried signal transmission lines run from this point out to the range.

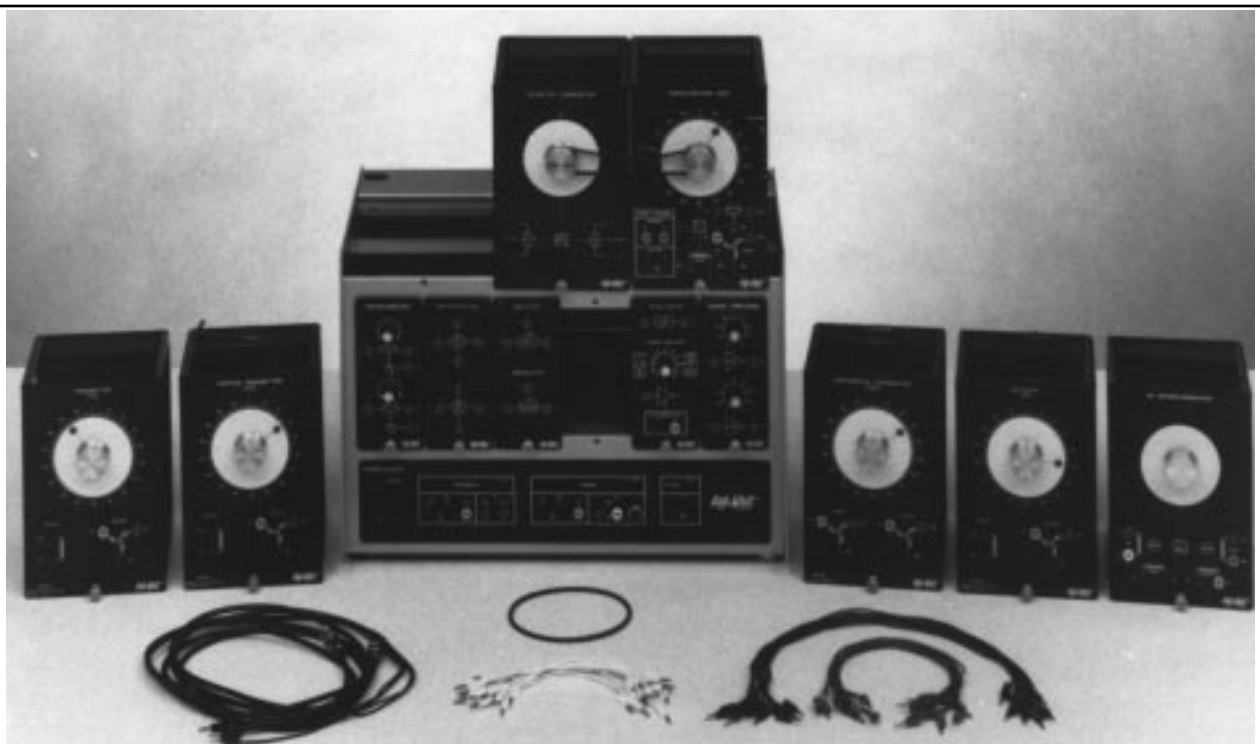
Power Requirements:
Varies

Applicable Publications:
TM 9-6920-742-14-1
TM 9-6920-742-24P-1

Reference Publications:
TM 9-6920-742-14-2 thru -6
TM 9-6920-742-24P-2 thru -6

Training Requirements Supported:
Infantry/Armor/Aviation/MOSC's

TRACKING ANTENNA (MAINTENANCE) TRAINER



Training Category/Level Utilized:
Signal/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
Simulates the operation, fault isolation, and alignment of electro-mechanical synchro/servo systems.

Functional Description:
Device 11-52 is a portable, self-contained system. Its modular design allows the student to observe and analyze the fundamental components of the servo system and associated electronic circuits. It provides a basic understanding of operational theory, as well as the ability to analyze, troubleshoot, and demonstrate open- and closed-loop synchro-servo systems. System inter-connections, operating signal states, trouble symptoms, and zeroing errors are easily conveyed and identified through the use of front panel inter-connection jacks and stacking leads.

The trainer is primarily an analog positional control device. It operates on low voltages from the power supply, which is built into the system enclosure. Solid state amplifier modules provide signal amplification, phase shift, and power gain normally required in actual systems.

Typical system experiments consist of position control of a dc motor; position control of a dc motor with dc tachometer compensation; position control of a dc motor by using synchro feedback; speed control of a dc motor; position control of an ac motor using ac or dc reference; position control of an ac motor with ac tachometer compensation; position control of an ac motor with synchro feedback: and, position control using only synchro motors.

Physical Information:

Type Trainer: Portable (classroom environment)
Number of pieces: Fourteen (14) modules
Power Supply Module: 16.5" x 11.8" x 10.6"; 36.7 lb
Leadset (with timing & circular section belts): 6" x 12" x 18"; less than 1 lb
Potentiometers Control Module: 2.5" x 5.6" x 8.9"; 1.25 lb
Error Detectors Control Module: 2.5" x 5.6" x 8.9"; 1.3 lb
Modulator/Demodulator Control Module: 2.5" x 5.6" x 8.9"; 1.3 lb
Phase Shifter/Power Amplifier Control Module: 2.5" x 5.6" x 8.9"; 1.7 lb
Signal Amplifiers Control Module: 2.5" x 5.6" x 8.9"; 1.37 lb
Transmitter Module: 5" x 7.6" x 7"; 5.24 lb
Control Transmitter Module: 5" x 7.6" x 7"; 3.5 lb
Differential Transmitter Module: 5" x 7.6" x 7"; 5.3 lb
Receiver Module: 5" x 7.6" x 7"; 5.4 lb
DC Motor Generator Module: 5" x 7.6" x 7"; 4.9 lb
AC Motor Generator Module: 5" x 7.6" x 7"; 5.5 lb
Inertia/Friction Load Module: 5" x 7.6" x 7"; 6.8 lb

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

115/230 vac ± 10%, 50/60 Hz

Applicable Publications:

Instructor Guide (Vendor commercial publication)
Student Guide (Vendor commercial publication)

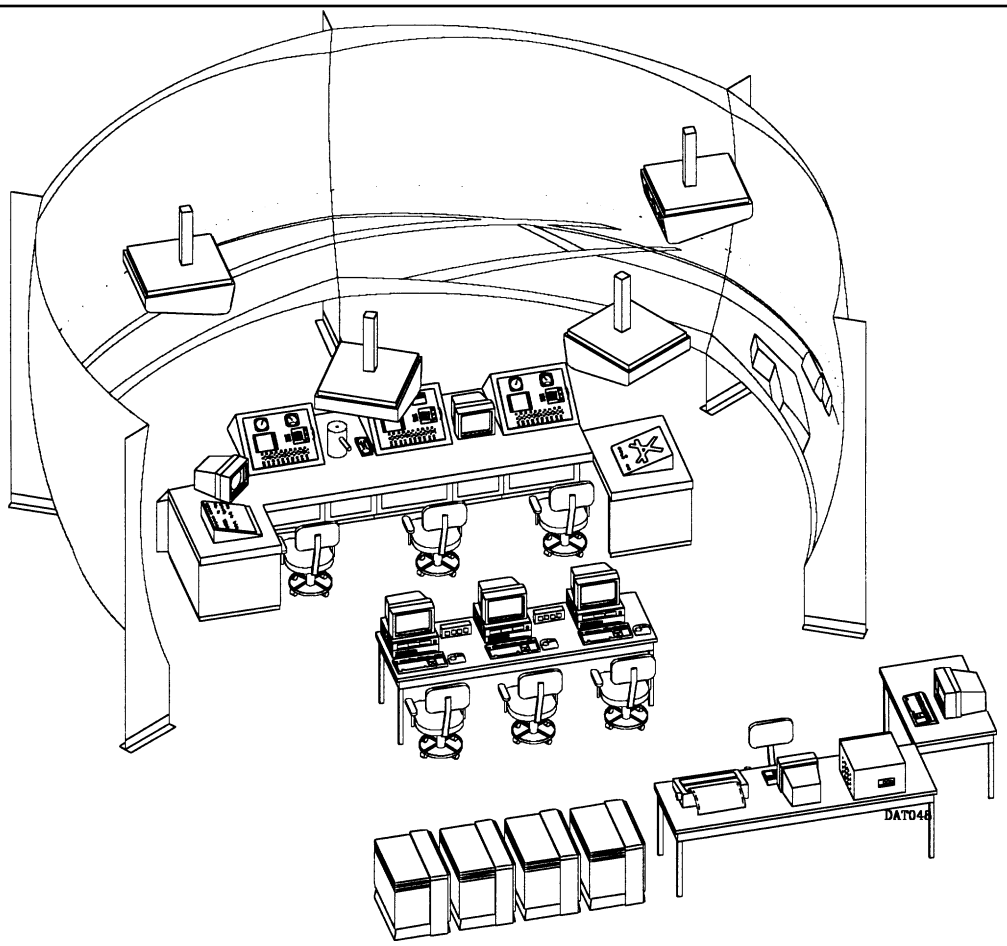
Reference Publications:

None

Training Requirements Supported:

MOSC 33Y

DATA AUTOMATED TOWER SYSTEM (DATS)



Training Category/Level Utilized:
Aviation/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
It provides both individual and group training, for up to three enlisted students who man the Local Controller, Flight Data, and Ground Controller console student positions; which simulate control tower operations. The DATS provides a six-week Phase 2 of a three phase 16 week ATC basic course of instruction.

Functional Description:
In addition to simulating tower controller consoles, the DATS simulates the AN/FSC-92(V) tower communications system, Digital Bright Radar Indicator Tower Equipment (DBRITE), crash phone, light guns, and airfield lighting panel. The students are surrounded by a 240 degree wrap-around screen (also visible to the instructor/pseudopilots) upon which a static background scene representing Cairns AAF, Ft. Rucker, AL and moving air/ground targets are displayed by projectors. The instructor may select any one of 30 Target Scenarios delivered (additional scenarios may be authored) and one of eight Environment Scenarios, (day, night, weather, etc.) which cause computer generated images consisting of airborne targets (military fixed and rotary wing, and general aviation), ground targets (aircraft and vehicle), associated airfield lighting, and weather to be projected on the screen. The DATS instructor/operator station (IOS) is located behind the student stations, and is staffed by one instructor position, and two pseudopilot positions (PP1/PP2). All three positions must be manned by qualified instructor/ tower personnel. The IOS is comprised of three identical hardware positions; any one of the three positions can be assigned to be the Instructor position, the remaining two positions are assigned as Pseudopilot 1 and 2. The instructor position controls target and environment scenario selection/ initialization, selection of Run mode, Freeze mode, Replay mode, or Restart mode, and can make on-line environment changes during the scenario run. The 30 target scenarios have a complexity rating from Beginner through Medium, to Ad-

vanced level. The two pseudopilot positions monitor and control targets (aircraft and vehicles) movement in response to student controller instructions when in the Run mode.

Physical Information:

DATS is comprised of:

A four segment screen assembly;
Four ceiling mounted color projectors;
Student station replica of a control tower;
Three-position instructor/pseudopilot station;
Interface computer, printer table, 4-CIG cabinets.
Uninterruptable power supply cabinet;
Development station (S/N 1 only)

Total system weight (est): 5500 pounds

Equipment Required, Not Supplied:

None

Special Installation Requirements:

(Information not available)

Power Requirements:

120/208 vac, 3 phase, 4-wire, WYE, 60 Hz power. Total trainer electrical power load is approximately 7 KVA with 13 amps per phase.

Applicable Publications:

DATS System Maintenance Manual, TD 11-6940-709-20
DATS Instructors Utilization Handbook, TD 11-6940-709-1

Reference Publications:

(Information not available)

Training Requirements Supported:

(Information not available)

DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS) GENERIC PRINCIPLES TRAINING SUITE (GPTS)

Training Category/Level Utilized:
Signal/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
The Defense Satellite Communications System (DSCS) Generic Principles Training Suite (GPTS) provides a means of training Satellite Communications (SATCOM) System Repairers and tri-service technicians in the principles of operations and maintenance of SATCOM equipment using Computer Based Training (CBT) and simulators.

Functional Description:
The GPTS is a training suite using computer-assisted instruction and computer-managed instruction techniques to teach principles of operations and procedures necessary to operate, maintain, troubleshoot, repair, align and test SATCOM equipment. GPTS consists of CBT work stations and DSCS equipment simulators that simulate the physical and performance characteristics of a generic system. Instructor work stations provide monitoring and management of classroom activities. The GPTS contains the following major components:

a. Power Distribution System (PDS)
b. Overtemp Alarm Panel (OAP)
c. Local Area Network (LAN)
d. Dual Instructor/Operator Station (with File Server) (IOS)
e. Interactive Courseware Student Stations (14 each) (ICW-SS)
f. Part Task Trainers (12 each) (PTT)
g. Full System Simulator (FSS).

Physical Information:
PDS Cabinet (1 ea): 32" L x 32" W x 68" H; 1,050 lbs
OAP (1 ea): 8" L x 24" W x 24" H; 125 lbs
IOS (1 ea): 33" L x 60" W x 29.5" H; 226 lbs
IOS Center Console (1 ea): 33" L x 26" W x 46" H; 368 lbs
ICW-SS (14 ea): 33" L x 48" W x 29.5" H; 146 lbs
DCSS PTT (3 ea): 30.75" L x 84" W x 68.5" H; 838 lbs
Uplink PTT (3 ea): 30.75" L x 63" W x 68.5" H; 638 lbs
Downlink PTT (3 ea): 30.75" L x 63" W x 68.5" H; 638 lbs
Track/Servo PTT (3 ea): 30.75" L x 63" W x 68.5" H; 638 lbs

FSS (1 ea): 30.75" L x 189" W x 68.5" H; 2,170 lbs
Communications Rack (1 ea): 30.75" L x 21" W x 68.5" H; 242 lbs
Chair (16 ea): 24" L x 24" W x 40" H; 30 lbs
ICW-SS Rear Partition (14 ea): 2" L x 50" W x 54" H; 60 lbs
ICW-SS Side Partition (16 ea): 36" L x 2" W x 54" H; 43 lbs
System Cabling: 768 lbs
Total Weight 17,483 lbs

Equipment Required, Not Supplied:
HP 92291A HP LaserJet 4si Toner Cartridge
8.5" X 11" Paper

Special Installation Requirements:
Classroom and Emergency lighting
Exit Emergency Power-off Switches and Wiring
Facility Ground Wiring
Facility Short Circuit and Overload Protection
Facility Power Lighting
Facility Ground Plate
Fire Detection and Alarm Equipment
Fire Suppression Equipment
Heating, Ventilation, and Air Conditioning Equipment
Raised Floor

Power Requirements:
Power Distribution System: 120/208 vac (Wye), 3-phase, 4-wire, 60 Hz
GPTS Suite Equipment: 120/208 vac, 60 Hz

Applicable Publications:
TD 11-6940-713-1-10-1
TD 11-6940-713-1-10-2
TD 11-6940-713-1-10-3
TD 11-6940-713-1-10-S1
TD 11-6940-713-1-10-S2
TD 11-6940-713-1-23-1
TD 11-6940-713-1-23-2
TD 11-6940-713-1-23-3
Manufacturer's Hardware and Software Manuals

Reference Publications:
None

Training Requirements Supported:
MOSC 31 Series

BASIC MORSE MISSION TRAINER (BMMT)

Training Category/Level Utilized:
Communications (Telegraphy)/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
To provide training and practice in the reading and typed transcription of Morse code.

Functional Description:
DVC 11-58 is a self-contained electronic system composed of three subsystems: an Instructor/Operator Station (IOS) subsystem consisting of two independent identical IOSs, a Student Station (SS) subsystem consisting of thirty individual student stations, and a Communications Subsystem (CS) that contains common audio and data networking capabilities. The BMMT provides for the implementation of self-paced Computer Based Instruction (CBI) of International Morse Code (IMC) and touch typing independently at each SS while simultaneously enabling the real-time monitoring of any selected SS from either or both of the IOS positions. The BMMT additionally incorporates provisions for course and curriculum management, individual and/or class status monitoring, and a courseware authoring and editing capability.

System networking is accomplished in a star-wired ring configuration that allows maximum distribution of controlled functions while retaining a centralized data base. IOS controls and indicators consist of the computer, color monitor, keyboards, and a dot matrix printer. The intercom master control assembly is used for calling students or selected groups. SSs consist of a color monitor and computer with keyboard. The Communications Subsystem (CS) consists of three units, the Remote Station Assembly (RSA) which is the audio interface at both the SS and the IOS. There are 32 RSAs in the BMMT. Master Control Assembly (MCA) which is the intercom control panel at each IOS. There are two MCAs in the BMMT. Last is the Communications Control Unit (CCU) which is the central audio switching and routing device. There is one CCU in the BMMT.

Physical Information:
CS: 45.5" x 30" x 30"; 601.58 lb
IOS: 47.5" x 30" x 60"; 181.5 lb
SS: 50" x 30" x 30"; 82.5 lb
(weights do not include cables, carrels, and chairs)

Equipment Required, Not Supplied:
None

Special Installation Requirements:
None

Power Requirements:
120 vac, single phase, 50-60 Hz

Applicable Publications:
Systems Interface Manual (SIM) TD 1l-6940-708-20
Instructor/Operator Manual (IOM), TD 11-6940-708-10

Reference Publications:
None

Training Requirements Supported:
MOSC 98D, 98H, Marine Corps, Navy, Air Force

QUICKFIX MAINTENANCE TRAINER (QFMT)

(PICTURE NOT AVAILABLE)

Training Category/Level Utilized:
Electronics Systems maintenance

Logistic Responsible Command, Service, or Agency:
(Information not availiable)

Source and Method of Obtaining:
(Information not availiable)

Purpose of Trainer:
To provide realistic maintenance training and QUICKFIX troubleshooting experience for MOS 33T technicians in a classroom setting.

Functional Description:
The QUICKFIX maintenance trainer consists of a total of 4 student stations and one instructor station. The student stations are identical and consist of a simulatedQUICKFIX interior and an instructional computer. The simulated QUICKFIX interior consists of 3D replicas (in metal) of the basic Line Replaceable Units (LRU's) that comprise the tactical system. The instructor station consists of two monitoring and authoring computers and a laser printer housed in standard office-type furniture. This equipment is used to provide simulated faulted conditions that match the student's training and troubleshooting manuals. Under instructor control, the simulated equipment can present a variety of faulted indications found on the LRU's. In addition, the system provides simulated test equipment and simulated system cables. Students are trained in following the troubleshooting diagrams provided in the tactical manuals.

The QUICKFIX maintenance trainer can record, analyze, and track the student's progress during each troubleshooting fault scenario. Automatic and manual remediation in the event of student error is provided as well as scoring and class management functions.

Various fault scenarios can be run on the equipment from easy to difficult. This allows for steady student progress throughout their training experience.

The simulated LRU's are provided with a set of operational characteristics coded into embedded computers networked and operating as one cohesive unit. These computers generate action messages that are recorded for each student manipulation of controls within the training device. In addition, these computers provide the realtime reactions to the various inputs. A single computer provides the tracking and scoring function for each station which is transmitted via a LAN to the instructor position for monitoring and record-keeping.

Physical Information
The training device consists of four permanently-installed pieces. They are installed on raised flooring and in an air conditioned and humidified classroom.
Instructor Station: 12' 9" L x 2' 6" W x 2' 6" H, 475 lbs.
Student Station (each): 13' 4" L x 8' 1" W x 4' 6" H, 2237 lbs.

Equipment Required, Not Supplied:
None

Special Installation Requirements:
(Information not availiable)

Power Requirements:
115V, 60Hz, 3-Phase, 30 amps per phase.

Applicable Publications:
QUICKFIX Instructor/Operator Manual, TD 11-6940-711-10
QUICKFIX Maintenance Manual, TD 11-6940-711-20

Reference Publications:
(Information not availiable)

Training Requirements Supported:
(Information not availiable)

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TRAILBLAZER MAINTENANCE TRAINER (TBMT)

Training Category/Level Utilized:
Electronics Systems maintenance

Logistic Responsible Command, Service, or Agency:
(Information not availiable)

Source and Method of Obtaining:
(Information not availiable)

Purpose of Trainer:
To provide realistic maintenance training and TRAILBLAZER troubleshooting experience for MOS 33T technicians in a classroom setting.

Functional Description:
The TRAILBLAZER maintenance trainer consists of a total of 4 student stations and one instructor station. The student stations are identical and consist of a simulated TRAILBLAZER interior and an instructional computer. The simulated TRAILBLAZER interior consists of 3D replicas (in metal) of the basic Line Replaceable Units (LRU's) that comprise the tactical system. The instructor station consists of two monitoring and authoring computers and a laser printer housed in standard office-type furniture. This equipment is used to provide simulated faulted conditions that match the student's training and troubleshooting manuals. Under instructor control, the simulated equipment can present a variety of faulted indications found on the LRU's. In addition, the system provides simulated test equipment and simulated system cables. Students are trained in following the troubleshooting diagrams provided in the tactical manuals.

The TRAILBLAZER maintenance trainer can record, analyze, and track the student's progress during each troubleshooting fault scenario. Automatic and manual remediation in the event of student error is provided as well as scoring and class management functions.

Various fault scenarios can be run on the equipment from easy to difficult. This allows for steady student progress throughout their training experience.

The simulated LRU's are provided with a set of operational characteristics coded into embedded computers networked and operating as one cohesive unit. These computers generate action messages that are recorded for each student manipulation of controls within the training device. In addition, these computers provide the realtime reactions to the various inputs. A single computer provides the tracking and scoring function for each station which is transmitted via a LAN to the instructor position for monitoring and record-keeping.

Physical Information
The training device consists of four permanently-installed pieces. They are installed on raised flooring and in an air conditioned and humidified classroom.
Instructor Station: 12' 9" L x 2' 6" W x 2' 6" H, 475 lbs.
Student Station (each): 10' 9" L x 8' 4" W x 5' 9" H, 2037 lbs.

Equipment Required, Not Supplied:
None

Special Installation Requirements:
(Information not availiable)

Power Requirements:
115V, 60Hz, 3-Phase, 30 amps per phase.

Applicable Publications:
TRAILBLAZER Instructor/Operator Manual, TD 11-6940-711-10
TRAILBLAZER Maintenance Manual, TD 11-6940-711-20

Reference Publications:
(Information not availiable)

Training Requirements Supported:

	MOS
33T10	33R10

AN/TPQ-45 ELECTRONIC WARFARE TRAINING SET AIRCRAFT SURVIVABILITY EQUIPMENT TRAINER IV (ASET IV)

(PICTURE NOT AVAILABLE)

Training Category/Level Utilized:
(Information not available)

Logistic Responsible Command, Service, or Agency:
(Information not available)

Source and Method of Obtaining:
(Information not available)

Purpose of Trainer:
Provides tactical training for aviation crews against ground-based air defense threat emitters threats. Provides "shoot on the move" and "kill and be killed" training realism.

Functional Description:
The ASET IV module consists of 2 anti-aircraft artillery (AAA) simulators, 2 infrared (IR) surface-to-air missile (SAM) simulators, 1 RF SAM Simulator, a Command Control and Communication (C#) Vehicle, and 6 man portable air defense system (MANPADS). The threat simulators are mounted on M!)(& HMMWVs.

Physical Information:
(Information not available)

Equipment Required, Not Supplied:
(Information not available)

Special Installation Requirements:
(Information not available)

Power Requirements:
(Information not available)

Applicable Publications:
(Information not available)

Reference Publications:
(Information not available)

Training Requirements Supported:
(Information not available)

GUARDRAIL MAINTENANCE TRAINER (GRMT)

Training Category/Level Utilized:
Signal/Level 1

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
GRMT was designed to provide Military Occupational Specialty (MOS) 33R10 Electronic Warfare/Intercept Aviation System Repairer training on the Improved Guardrail V (IGRV) and Guardrail/Common Sensor (GRCS) systems. The students perform organizational, intermediate, and depot level maintenance on the Integrated Process Facility (IPF), Auxiliary Ground Equipment (AGE), and Special Test Equipment (STE) systems, as well as aviation, unit, intermediate, and depot level maintenance on the Airborne Relay Facility (ARF).

Functional Description:
The trainer is designed to look like the real Guardrail facilities. The switches and dials are real, and pictures of the equipment are in their appropriate locations on the racks. All data from the switches, is passed to the VAX computer, where the information gets processes to turn on lamps, LED displays, or displays graphics on terminal screens. The IPF Classroom consists of three student stations, a MicroVAX and a Instructors terminal. The AGE/ARF/STE classroom has in it three AGE/ARF trainers, a STE trainer - which is comprised of two Fast Directional Finder (FDF) trainers and one Communications High Accuracy Airborne Location System (CHAALS) trainer, MicroVAX and a Instructors terminal. During training the students interface with the MicroVAX via a personal computer (PC) terminal running Advanced Instruction System - Second Generation (AIS II). This allows the students to run their maintenance tests remove/add power to a component system, replace that system, re-test it, and give a solution to the problem. Additionally, are the lights, displays, switches, and dials that interface to the MicroVAX. The student uses these to simulate configuring of the equipment prior to testing. There are also simulated oscilloscopes, spectrum. analyzers, multimeters, and power meters.

Physical Information:
(Information not avaliable)

Equipment Required, Not Supplied:
(Information not avaliable)

Special Installation Requirements:
(Information not avaliable)

Power Requirements:
(Information not avaliable)

Applicable Publications:
(Information not avaliable)

Reference Publications:
(Information not avaliable)

Training Requirements Supported:
(Information not avaliable)

All Source Analysis System Trainer (ASAS-T)

Training Category/Level Utilized:
(Information not avaliable)

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
(Information not avaliable)

Functional Description:
The trainer is designed to look like the real ASAS equipment, and is comprised of commercial off-the-shelf equipment with interactive courseware and a limited number of ruggedized workstations.

Physical Information:
(Information not avaliable)

Equipment Required, Not Supplied:
(Information not avaliable)

Special Installation Requirements:
(Information not avaliable)

Power Requirements:
(Information not avaliable)

Applicable Publications:
(Information not avaliable)

Reference Publications:
(Information not avaliable)

Training Requirements Supported:

MOS

96B	98C	98J

Officer Specialties

350B	352C	352J	35D/G

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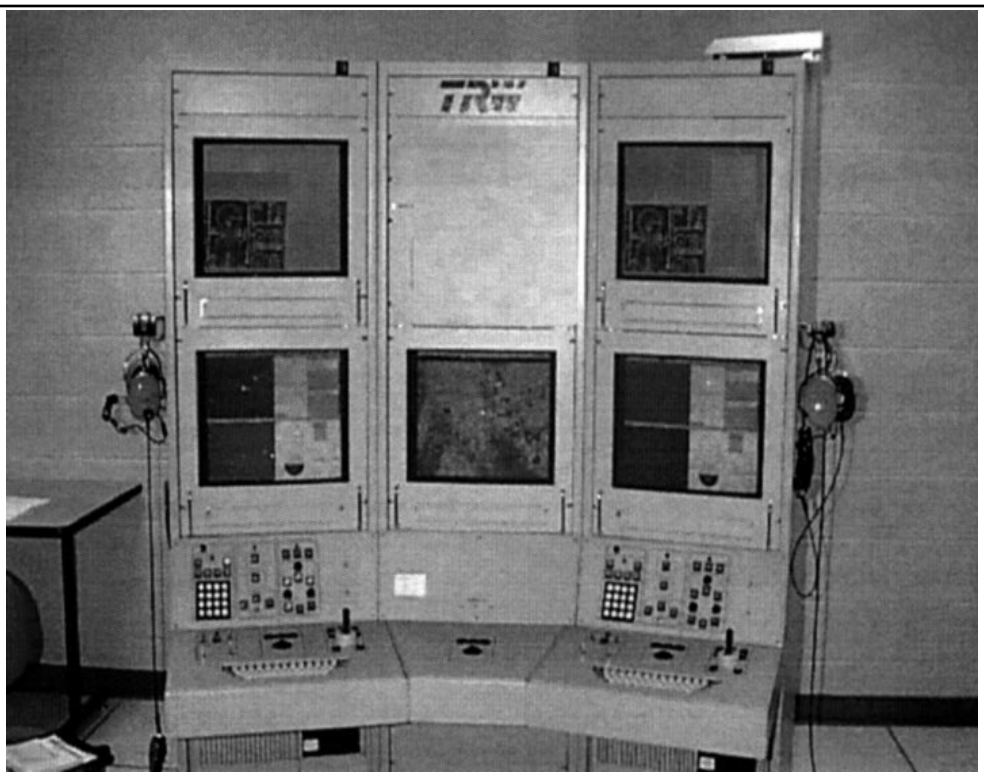
Unmanned Aerial Vehicle Training Device (UAV-TD)



Training Category/Level Utilized:
(Information not avaliable)

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
The goal of the Hunter UAV Training Device (TD) is to enhance student training through the use of Computer Based Training (CBT), the Instutional Mission Simulator (IMS), the Instructor/Operator Station (IOS), the Maintenance Part-Task Trainer (PTT), and supported by the Training System Support Center (TSSC).

The IMS is capable of simulating conditions of mission planning and mission execution to include the activities of the Mission Commander (MC), Data Exploiter (DE), Air Vehicle Operator (AVO), and Mission Payload Operator (MPO). The IMS includes the capability to use Defense Mapping Agency (DMA) maps data to provide the necessary information to the MC, DE, AVO, and MPO. The IMS is a three bay console which provides a real sense of the tri-console environment in which all tri-console controls, indicators, instruments and communications perform the functions of the Hunter environment.

The IOS provides the capability for the instructor to select the Interactive Courseware (ICW) lesson for each student, download the lesson to the Student Station, monitor student progress, freeze and unfreeze the simulation, and insert emergencies and malfunctions.

The CBT provides highly interactive training with active student involvement. The CBT augments classroom training and provides individualized, self-paced trainiing. Training consists of both Operator and Maintainer training.

The TSSC is a self-sufficient system and performs all technical and management functions necessary to support, maintain, confiruration manage, and update itself through the lifecycle.

The PTTs provide the student with hands-on training through the use of actual equipment or mock-ups in a classroom environment. The PTTs use Hunter components when practical.

Functional Description:
The UAV-TD consists of a total of 8 student stations and one instructor station. The student stations are identical and consist of a simulated UAV-SR station.

Physical Information:
(Information not avaliable)

Equipment Required, Not Supplied:
(Information not avaliable)

Special Installation Requirements:
(Information not avaliable)

Power Requirements:
(Information not avaliable)

Applicable Publications:
(Information not avaliable)

Reference Publications:
(Information not avaliable)

Training Requirements Supported:
MOS96U MOS52D

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